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MEMORANDUM TO FILE

17 AUG 1956

25X1A9a FROM: [REDACTED]

25X1A5a1 SUBJECT: Visit to [REDACTED]

25X1A REFERENCE: [REDACTED] Antenna Selector Switch, TAS-240

1. A visit was made to the [REDACTED] on 16 August 1956 for the purpose of inspecting the progress of Contract [REDACTED]. The subject contract concerns the manufacture of nine (9) each type TAS-240 Antenna Selector Switches. The Switches are designed for remote transmitter/antenna switching utilizing 2 wire 600 ohm open transmission line. The type TAS-240 provides for switching the outputs of two transmitters to any two of four outgoing lines.

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2. Persons in attendance at the discussions and inspection were:

[REDACTED]

3. One Antenna Switch framework assembly had been set up in a storage yard and several motors with associated switching mechanism installed. The Control Panel was set up in the immediate vicinity and several switching operations performed. Switch operations are by low voltage DC motors utilizing limit switches. Each motor is of the reversible two field type. The operation of the unit was satisfactory and the time of a switching function varied from approximately 3 to 9 seconds dependent upon the number of motors involved in the duty cycle. It was not possible to check all of the possible switching combinations due to the fact the Project Engineer had not had the time to install the seven motors required for a complete switch. The Project Engineer demonstrated how a motor with associated switching mechanism was installed and the action of the interlock and control circuits. The output of the DC power supply is adjustable from 50 volts down and is fixed upon installation, dependent upon the length of the cable from the Control Panel to the Switch and the resultant voltage drop. The switch blade contacts and jaws are made from beryllium copper, cadmium plated, to insure low loss RF contact surface. Safe high frequency voltage limitations are 15 KV to ground.

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4. The unit is supported on a structural steel framework fabricated from 3" galvanized channel. Each member is marked, by a stamping, to aid in the assembly of the unit. Due to the physical size of the framework, approximately 4' x 6' with an overall height of 16', it will be necessary to ship the units knocked down and to assemble the switch "on the job". Each Switch will be shipped with a complete set of drawings to facilitate assembly and installation of the unit.

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5. The Project Engineer reviewed the drawings with a general engineering indoctrination on the installation and operation of the unit. The availability of spare parts was discussed and are obtainable from either [REDACTED] or the respective manufacturer of the component.

6. It is planned to return to the [REDACTED] in approximately two weeks to re-inspect the completed switch, with all seven motors installed, in order that the unit be accepted for shipment.

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